

Slow-light photonic crystal waveguide

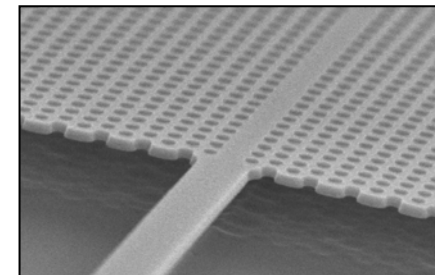
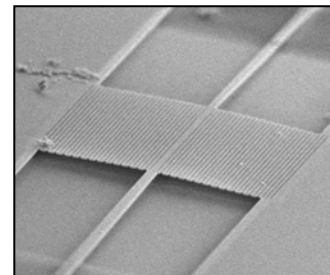
Motivation: Enhancement of stimulated Raman scattering in slow-light photonic crystal waveguide in monolithic silicon.

Result and Significance:

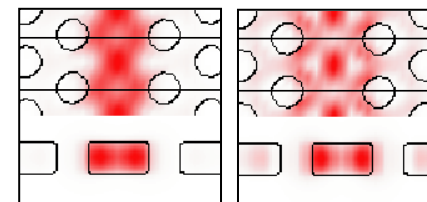
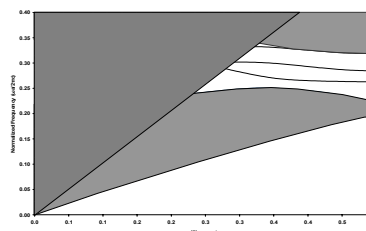
- * Design and nanofabrication of slow-light photonic crystal waveguide for enhanced stimulated Raman scattering in silicon.
- * Band structure and modes calculation of photonic crystal waveguide.
- * Transmission measurements coupled with lensed fiber and supercontinuum source.

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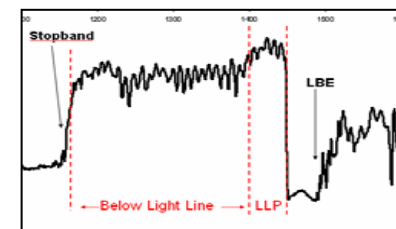
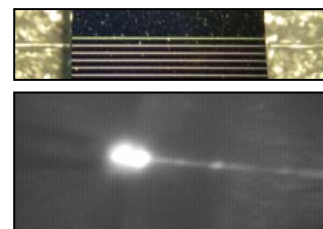
Publication: Optics Letters, (submitted)



Slow-light “air-bridge” PhC waveguide



Projected band structure and defect modes of PhC waveguide



Transmission measurements coupled with lensed fiber

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